

AP20 Rec'd PCT/PTO 23 MAY 2006

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No: To Be Assigned  
Applicants: Suguru FUJITA, et al.  
Filed: Herewith  
Title: TRANSMITTING DEVICE, RECEIVING DEVICE, AND  
COMMUNICATION SYSTEM  
TC/A.U.: To Be Assigned  
Examiner: To Be Assigned  
Confirmation No.: To Be Assigned  
Docket No.: MAT-8839US

**INFORMATION DISCLOSURE STATEMENT*****Mail Stop PCT***

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO SB/08(a) and PTO SB/08(b) form submitted herewith. A copy of the references listed on the PTO SB/08(a) and PTO SB/08(b) are enclosed.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

The following references are not in the English language:

- 1) WO 2004/077775
- 2) JP 2003-189353
- 3) JP 2003-515974

References 1) and 2) include an English language abstract.

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Reference 3 has a counterpart English language patent or application attached and a "concise explanation" under 37 CFR § 1.98(a)(3) as set forth in the background portion of the specification.

References 1) to 3) were cited in a search report by a foreign Patent Office in a patent application corresponding to the above-identified patent application. A copy of the Japanese language Search Report and an English translation of Form PCT/ISA/210 to explain the special category definitions of the Japanese language search report are enclosed. MPEP Section 609 IIIA(3)

This Information Disclosure Statement is being filed concurrently with the above-referenced application.

Respectfully submitted,

Lawrence E. Ashery, Reg. No. 34,515  
Attorney for Applicants

LEA/fp

Enclosures: PTO/SB/08A and PTO/SB/08B  
(6) References  
Japanese Search Report  
English translation of Form PCT/ISA/210.

Dated: May 23, 2006

P.O. Box 980  
Valley Forge, PA 19482-0980  
(610) 407-0700

The Commissioner for Patents is hereby authorized to charge payment to Deposit Account No. **18-0350** of any fees associated with this communication.

**EXPRESS MAIL: Mailing Label No.: EV 689 864 593 US**  
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I hereby certify that this paper and fee are being deposited, under 37 C.F.R. § 1.10 and with sufficient postage, using the "Express Mail Post Office to Addressee" service of the United States Postal Service on the date indicated above and that the deposit is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

KATHLEEN LIBBY

Substitute for Form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number

To Be Assigned 10/580540

Filing Date

Herewith

First Named Inventor

Suguru FUJITA, et al.

Art Unit

To Be Assigned

Examiner Name

To Be Assigned

SHEET 1 of 2

Attorney Docket No.

MAT-8839US

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (If known)			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date (MM-DD- YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (If known)				
		WO 2004/077775 A1 (with English abstract)	09/10/04	YOKOHAMA TLO COMPANY LTD		<input type="checkbox"/>
		JP 2003-189353 A (with English abstract)	07/04/03	GENERAL ELECTRIC CO		<input type="checkbox"/>
		JP 2003-515974 A (with counterpart WO 2001/039451 A1)	05/07/03			<input type="checkbox"/>
		WO 2001/039451 A1 (with counterpart JP 2003-515974 A)	05/31/01	MULTISPECTRAL SOLUTIONS INC		<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

<sup>1</sup>Applicant's unique citation designation number (optional).

<sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard St.3).

<sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

<sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Substitute for Form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>	<b>Complete if Known</b>	
	Application Number	To Be Assigned <b>10/580540</b>
	Filing Date	Herewith
	First Named Inventor	Suguru FUJITA, et al.
	Art Unit	To Be Assigned
	Examiner Name	To Be Assigned
SHEET 2 of 2		Attorney Docket No. MAT-8839US

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		Japanese Search Report for PCT/JP2005/018670, dated January 17, 2006.	<input type="checkbox"/>
		English translation of Form PCT/ISA/210.	<input type="checkbox"/>
		CHOI, et al., "Performance of Autocorrelation Receivers for Ultra-Wideband Communications with PPM in Multipath Channels", In: Ultra Wideband Systems and Technologies, 2002, Digest of Papers, 2002 IEEE Conference, May 23, 2002, pp. 213-217.	<input type="checkbox"/>
		QUEK, et al., "Ultrawide Bandwidth Transmitted-Reference Signaling", Communications, 2004 IEEE International Conference, June 24, 2004, pp. 3409-3413, Vol. 6.	<input type="checkbox"/>
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Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

<sup>1</sup>Applicant's unique citation designation number (optional).

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